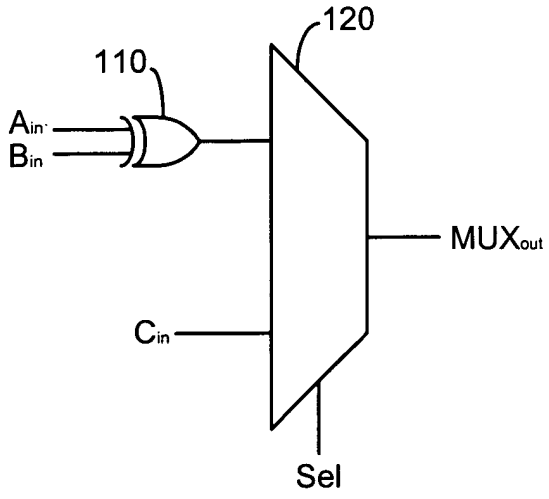


Fig. 1

Ain	Bin	XORout
0	0	0
0	1	1
1	0	1
1	1	0

Fig. 2

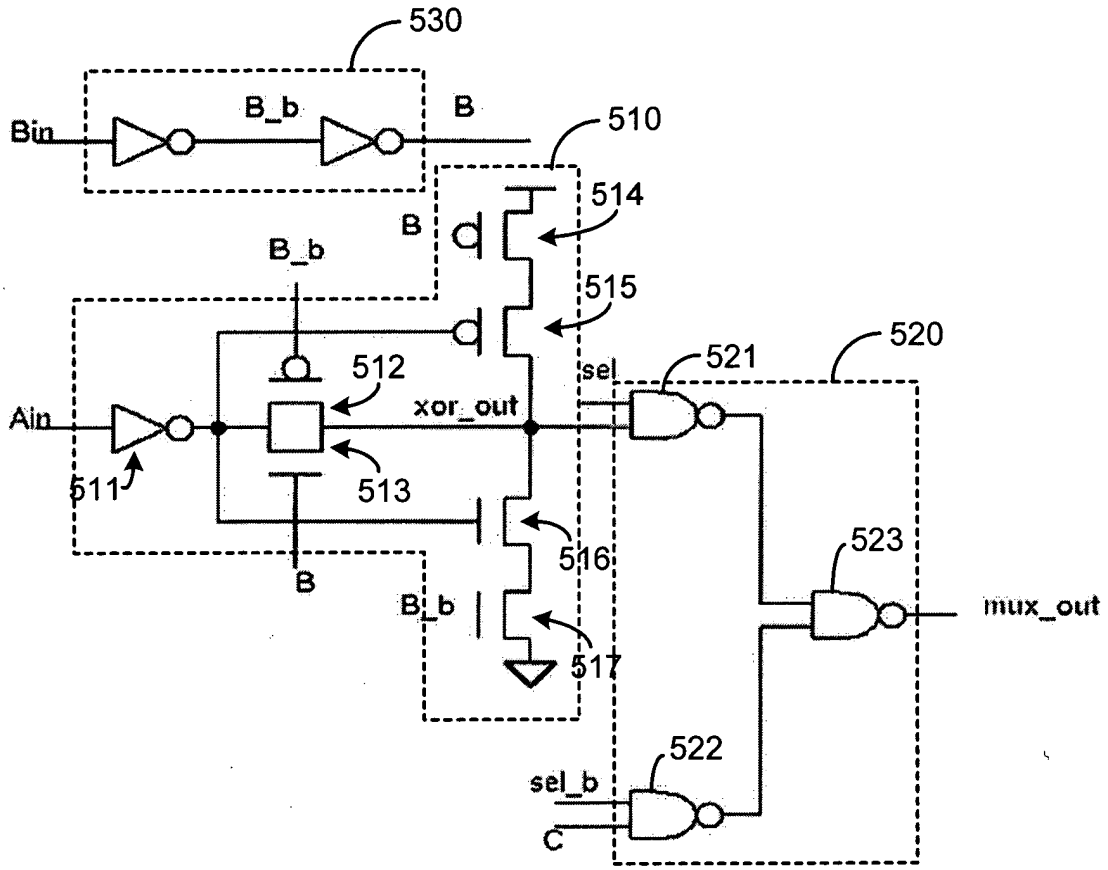
XORout	Cin	Sel	MUXout
*1	*2	0	*2
*1	*2	1	*1

*1 and *2 can be either 0 or 1.

Fig. 3

Ain	Bin	XORout	Cin	Sel	MUXout
0	0	0	*	1	0
0	1	1	*	1	1
1	0	1	*	1	1
1	1	0	*	1	0
*	*	*	0	0	0
*	*	*	1	0	1

Fig. 4



(Prior Art)
Fig. 5

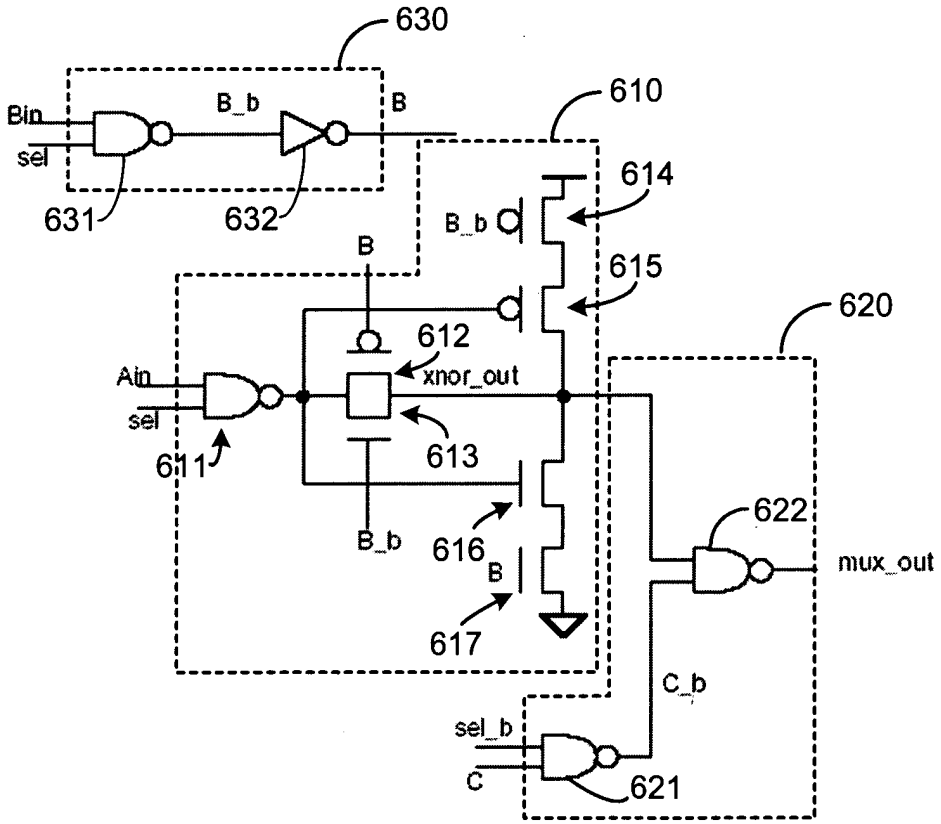
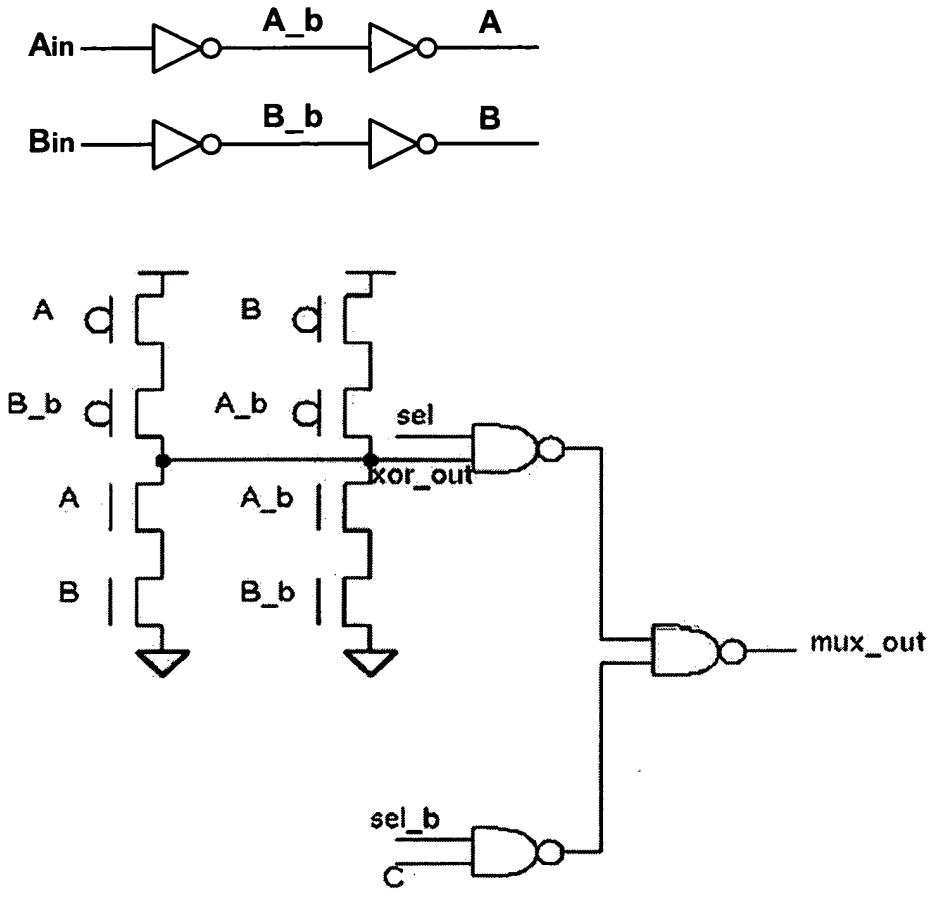

630
Bin
sel
B_b
B
631
632
610
614
B_b
615
B
620
612
Ain
sel
xnor_out
611
613
B_b
616
B
617
622
mux_out
C_b
sel_b
C
621

Fig. 6

Ain	Bin	C	sel	A_b	B_b	B	xnor_out	sel_b	C_b	mux_out
0	0	*	1	1	1	0	1	0	1	0
0	1	*	1	1	0	1	0	0	1	1
1	0	*	1	0	1	0	0	0	1	1
1	1	*	1	0	0	1	1	0	1	0
0	0	1	0	1	1	0	1	1	0	1
0	1	1	0	1	1	0	1	1	0	1
1	0	0	0	1	1	0	1	1	1	0
1	1	0	0	1	1	0	1	1	1	0

Fig. 7



(Prior Art)
Fig. 8

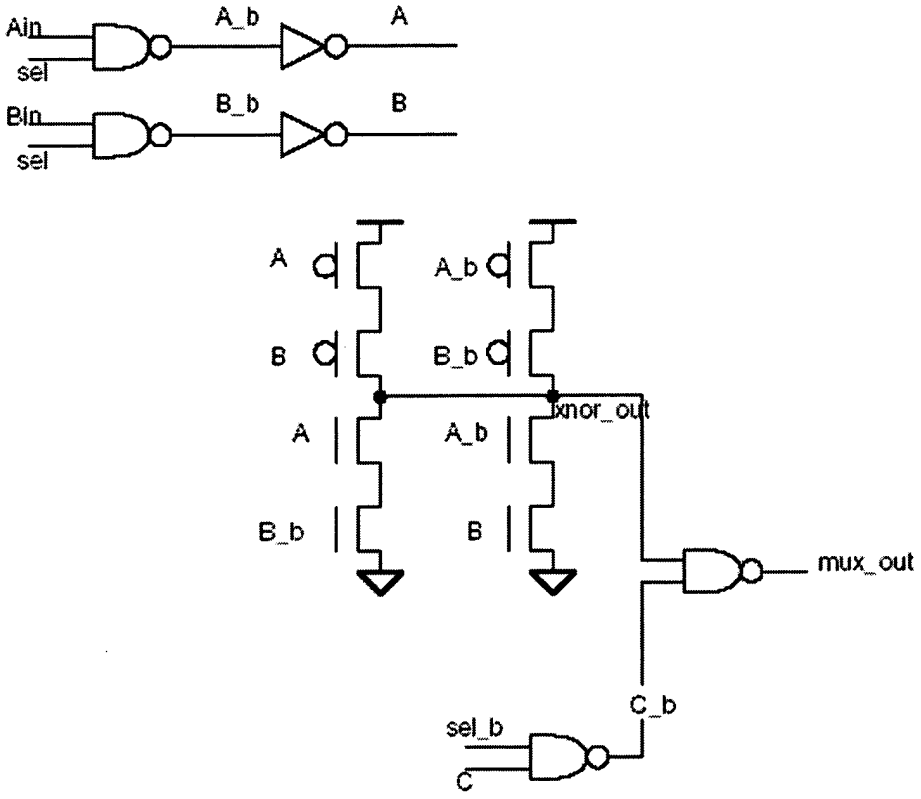
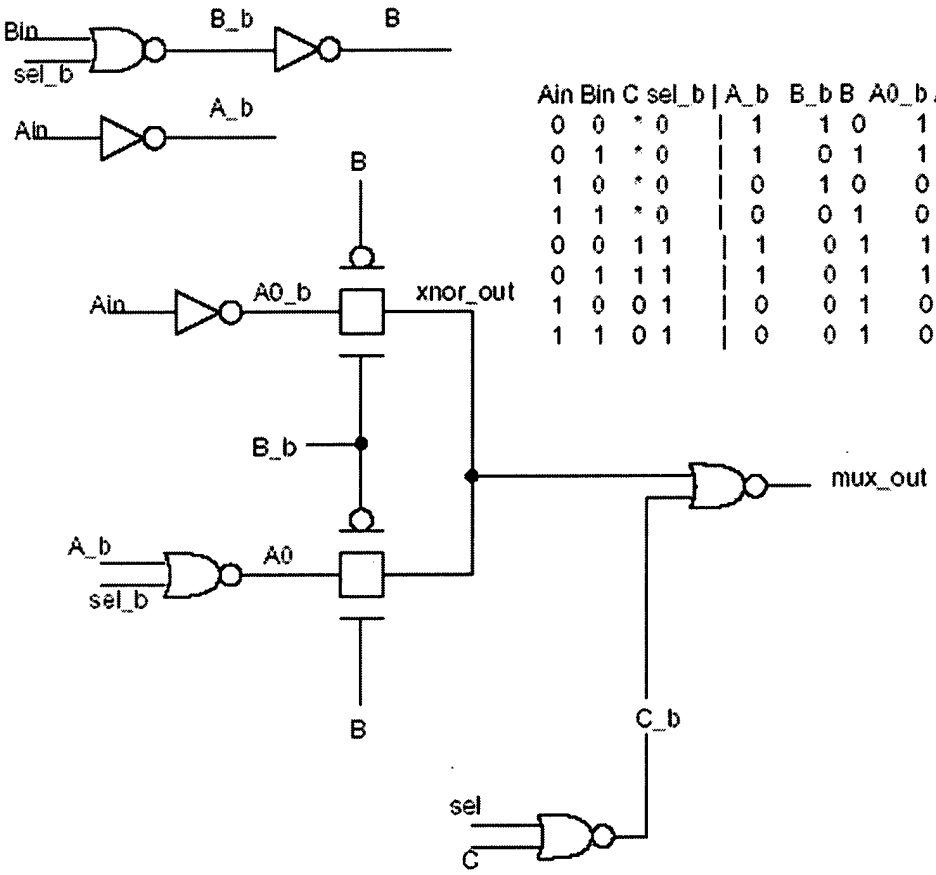
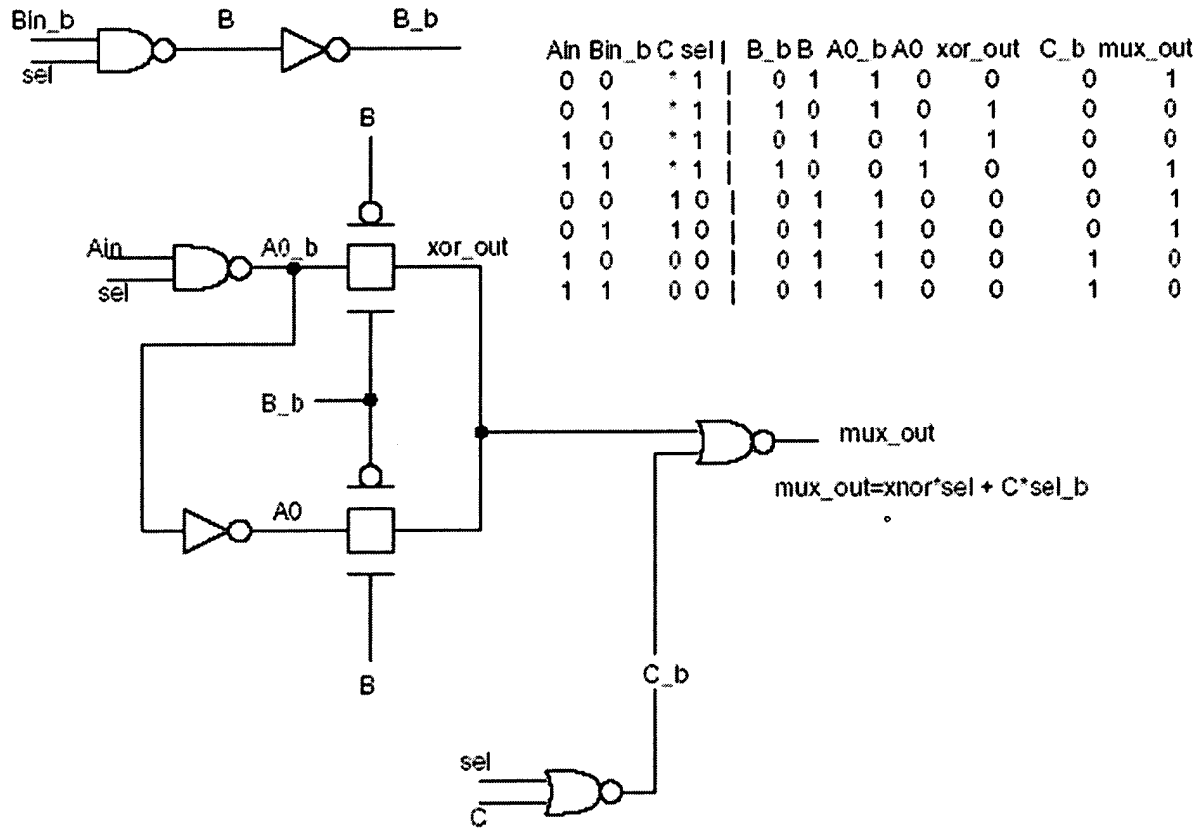

Ain
sel
A_b
A
Bin
sel
B_b
B
A
B
A_b
B_b
A
B_b
A_b
B
xnor_out
mux_out
C_b
sel_b
C

Fig. 9



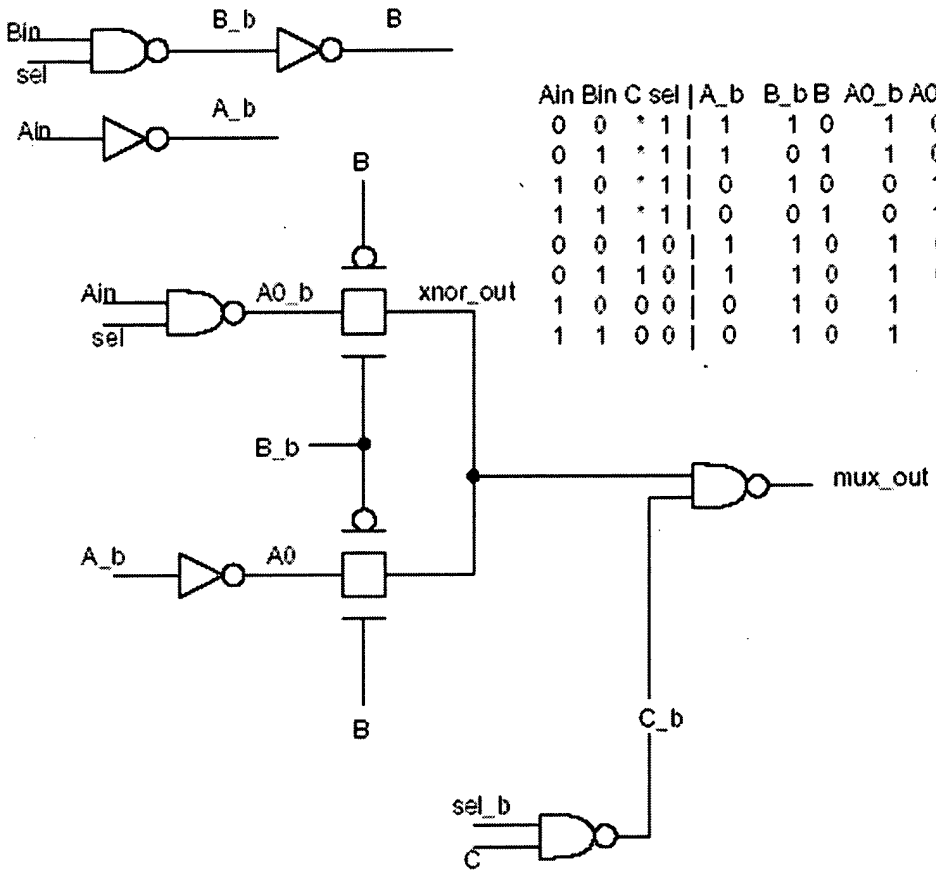
Ain	Bin	C	sel_b	A_b	B_b	B	A0_b	A0	xnor_out	sel	C_b	mux_out
0	0	*	0	1	1	0	1	0	1	1	0	0
0	1	*	0	1	0	1	1	0	0	1	0	1
1	0	*	0	0	1	0	0	1	0	1	0	1
1	1	*	0	0	0	1	0	1	1	1	0	0
0	0	1	1	1	0	1	1	0	0	0	0	1
0	1	1	1	1	0	1	1	0	0	0	0	1
1	0	0	1	0	0	1	0	0	0	0	1	0
1	1	0	1	0	0	1	0	0	0	0	1	0

Fig. 10



Ain	Bin_b	C	sel	B_b	B	A0_b	A0	xor_out	C_b	mux_out
0	0	*	1	0	1	1	0	0	0	1
0	1	*	1	1	0	1	0	1	0	0
1	0	*	1	0	1	0	1	1	0	0
1	1	*	1	1	0	0	1	0	0	1
0	0	1	0	0	1	1	0	0	0	1
0	1	1	0	0	1	1	0	0	0	1
1	0	0	0	0	1	1	0	0	1	0
1	1	0	0	0	1	1	0	0	1	0

Fig. 11



Ain	Bin	C	sel	A_b	B_b	B	A0_b	A0	xnor_out	sel_b	C_b	mux_out
0	0	*	1	1	1	0	1	0	1	0	1	0
0	1	*	1	1	0	1	1	0	0	0	1	1
1	0	*	1	0	1	0	0	1	0	0	1	1
1	1	*	1	0	0	1	0	1	1	0	1	0
0	0	1	0	1	1	0	1	0	1	1	0	1
0	1	1	0	1	1	0	1	0	1	1	0	1
1	0	0	0	0	1	0	1	1	1	1	1	0
1	1	0	0	0	1	0	1	1	1	1	1	0

Fig. 12

Ain	Bin	C	sel	A_b	A	B_b	B	xnor_out	sel_b	C_b	mux_out
0	0	*	1	1	0	1	0	1	0	1	0
0	1	*	1	1	0	0	1	0	0	1	1
1	0	*	1	0	1	1	0	0	0	1	1
1	1	*	1	0	1	0	1	1	0	1	0
0	0	1	0	1	0	1	0	1	1	0	1
0	1	1	0	1	0	1	0	1	1	0	1
1	0	0	0	1	0	1	0	1	1	1	0
1	1	0	0	1	0	1	0	1	1	1	0

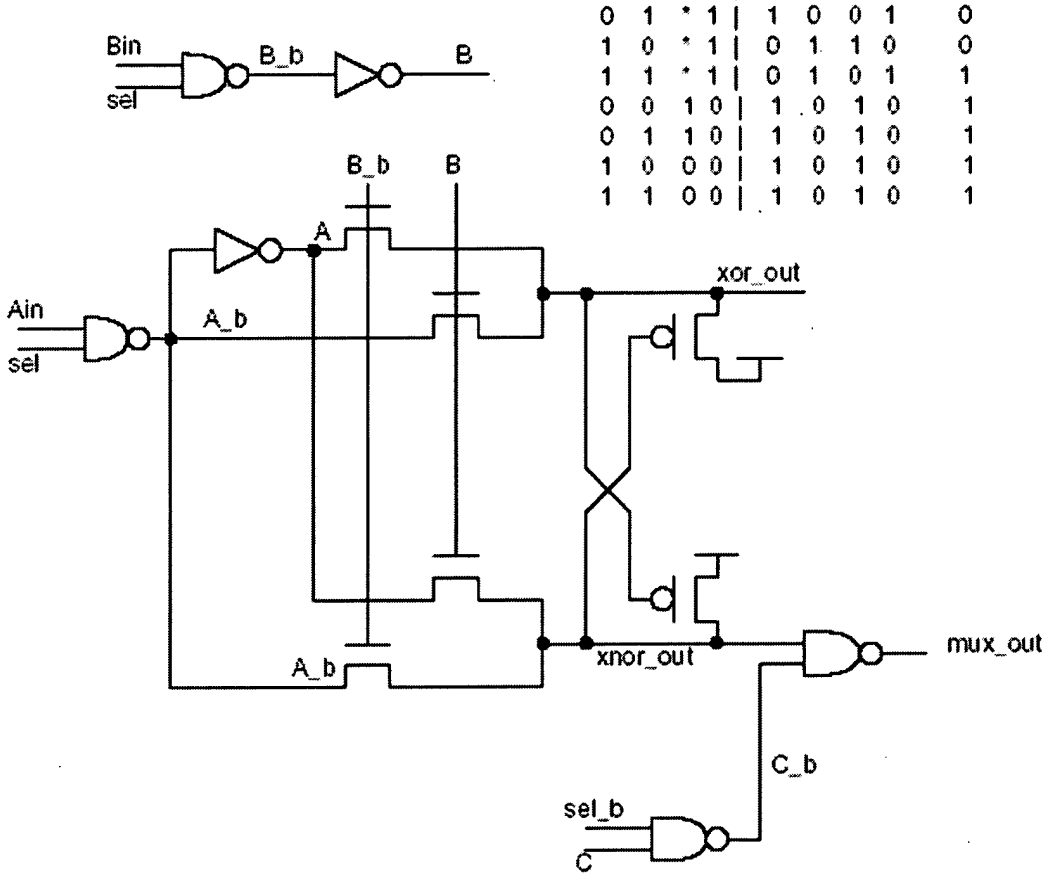
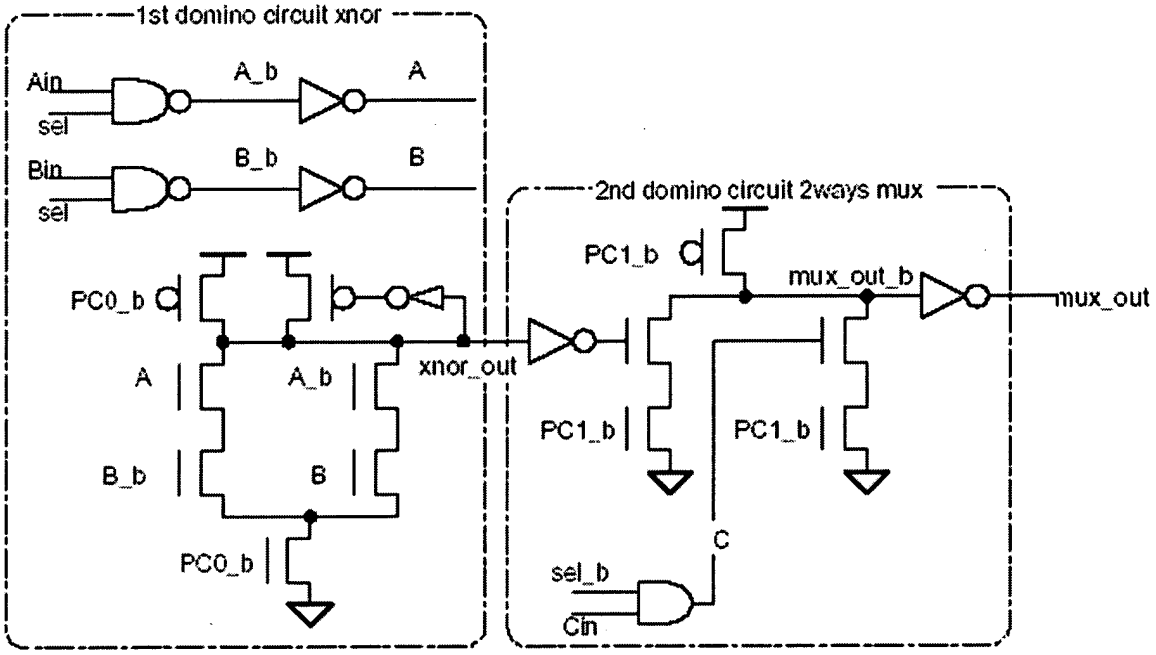


Fig. 13



PC0_b	PC1_b	Ain	Bin	Cin	sel	A_b	A	B_b	B	xnor_out	sel_b	C	mux_out_b	mux_out
0	0	*	*	*	*	*	*	*	*	1	*	*	1	0
1	1	0	0	*	1	1	0	1	0	1	0	1	1	0
1	1	0	1	*	1	1	0	0	1	0	0	1	0	1
1	1	1	0	*	1	0	1	1	0	0	0	1	0	1
1	1	1	1	*	1	0	1	0	1	1	0	1	1	0
1	1	0	0	1	0	1	0	1	0	1	1	1	0	1
1	1	0	1	1	0	1	0	1	0	1	1	1	0	1
1	1	1	0	0	0	1	0	1	0	1	1	0	1	0
1	1	1	1	0	0	1	0	1	0	1	1	0	1	0

Fig. 14

Ain	Bin	sel0	sel1	sel2	sel3	xnor_out	4ways-mux_out
0	0	1	0	0	0	1	0
0	1	1	0	0	0	0	1
1	0	1	0	0	0	0	1
1	1	1	0	0	0	1	0
*	*	0	1	0	0	1	d1
*	*	0	0	1	0	1	d2
*	*	0	0	0	1	1	d3

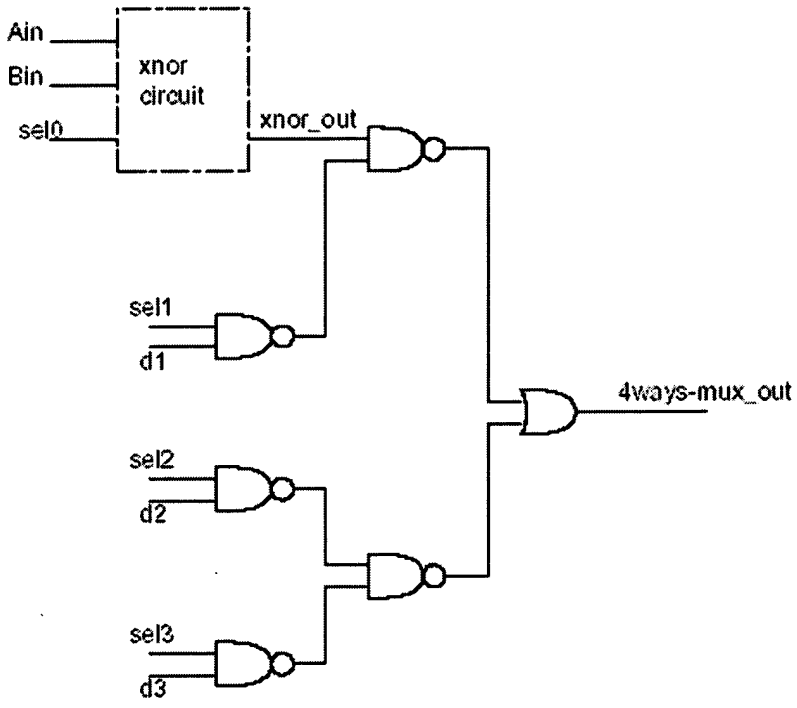


Fig. 15